USSN: 09/716,395 Filed: November 20, 2002 Atty Docket No.: 6752.US.O1 Amendment & Response

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original) A mutant protein derived from a wild-type human Bcl-2 protein wherein a sequence of amino acid residues comprising a flexible loop from said wild-type human Bcl-2 protein is replaced with a replacement amino acid sequence comprising at least two acidic amino acids.

Claim 2 (original) The mutant protein of Claim 1 wherein said replacement amino acid sequence comprises a sequence of at least a portion of a flexible loop from human Bclx_L protein.

Claim 3 (original) The mutant protein of Claim 2 wherein the replacement amino acid sequence comprises the sequence of SEQ ID NO:1. | bac DVEENRTEAPEGTESE.

Claim 4 (original) The mutant protein of Claim 1 wherein the replacement amino acid sequence comprises a sequence of at least 4 to about 50 amino acid residues.

Claim 5 (original) The mutant protein of Claim 1 wherein said replacement amino acid sequence comprises a sequence of at least 16 to about 25 amino acid residues.

Claim 6 (original) The mutant protein of Claim 1 wherein said acidic amino acids are glutamic acid.

Claim 7 (original) The mutant protein of Claim 1 wherein said acidic amino acids are aspartic acid.

Claim 8 (original) The mutant protein of Claim 1 wherein said acidic amino acids are a glutamic acid and aspartic acid.

Claim 9 (original) The mutant protein of Claim 1 wherein said amino acid residues which encode a flexible loop from said human Bcl-2 protein comprise amino acids 35-91 of said human Bcl-2 protein.

Claim 10 (original) The mutant protein of Claim 1 which has an isoelectric point lower than that of wild-type Bcl-2.



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Claim 11 (original) The mutant protein of Claim 10 wherein said isoelectric point is from

4.5 to about 6.0.

Claim 12 (original) The mutant protein of Claim 10 wherein said isoelectric point is from

5.0 to about 5.5.

Claim 13 (original) The mutant protein of Claim 10 wherein said isoelectric point is 5.0.

Claim 14 (original) A mutant protein having an amino acid sequence comprising:

MAHAGRTGYDNREIVMKYIHYKLSQRGYEWDAGDDVEENRTEAPEGTESEVYHLA

LRQAGDDFSRRYRGDFAEMSSQLHLTPFTARGRFATVVEELFRDGVNWGRIVAFFEF GGVMCVESVNREMSPLVDNIALWMTEYLNRHLHTWIQDNGGWDAFVELYGPSMR

(SEQ ID NO:2).

Claim 15 (canceled)

Claim 16 (canceled)

Claim 17 (canceled)

Claim 18 (canceled)